IAP3 Rec'd PCT/PTO 20 DEC 2004

FORM PTO-13% (REV . 120-2004) TRANSMITTAL LETTER TO THE UNITED STATES **DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371**

21415-0015US . .

U.S. APPLICATION.N

INTERNATIONAL APPLICATION NO.				INTERNATIONAL FILING DATE	PRIORITI DATE CLAIMED						
		PCT	/AU03/01487	10 November 2003 (10.11.2003)	08 November 2002 (08.11.2002)						
TITLE OF INVENTION											
A METHOD FOR OPTIMISING GENE EXPRESSION USING SYNONYMOUS CODON OPTIMISATION											
APPL	ICANT	r(S) FC	OR DO/EO/US								
				Ian Hector FRAZER							
Appl	icant h	erewi	th submits to the United State	es Designated/Elected Office (DO/EO/US	the following items and other information:						
1.		This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.									
2.	\boxtimes	This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.									
3.		This express request to begin national examination procedures (35 U.S.C. 371(f). The submission must include items (5), (6), (9) and (21) indicated below.									
4.		The 1	US has been elected (Article	31).							
5.		A co	opy of the International Appli	cation as filed (35 U.S.C. 371(c)(2))							
	a.		is attached hereto (required	only if not communicated by the Internat	ional Bureau).						
	b.		has been communicated by	the International Bureau.							
	c.		is not required, as the applic	cation was filed in the United States Rece	iving Office (RO/US).						
6.		A En	nglish language translation of	the International Application as filed (35	U.S.C. 371(c)(2)).						
	a.	is attached hereto.									
	b.	has been previously submitted under 35 U.S.C. 154(d)(4).									
7.	 a.	Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) are attached hereto (required only if not communicated by the International Bureau).									
	b.		had been communicated by	the International Bureau.							
	c.	have not been made; however, the time limit for making such amendments has NOT expired.									
	d.		have not been made and wi	Il not be made.							
8.		An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).									
9.	\boxtimes	An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).									
10.		An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).									
Item	s 11 to	20. b	elow concern document(s)	or information included:							
11.	\boxtimes	An l	Information Disclosure Stater	ment under 37 CFR 1.97 and 1.98.							
12.		An a	An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included								
13.		A preliminary amendment.									
14.		An Application Data Sheet under 37 CFR 1.76.									
15.		A substitute specification.									
16.		A power of attorney and/or address letter.									
17.	\boxtimes	A computer-readable form of the sequence listing in accordance with PCT Rule 132 and 37 CFR 1.821-1825									
18.		A second copy of the published international application under 35 U.S.C. 154(d)(4)									
19.		A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).									
20.	\boxtimes	Other items or information: copy of Notice (dated 9/30/05); Search Report; Request for Refund; Request for Extension of Time									
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ſ	U.S.	APPLICA	TION NO. (IF I	KNOWN, SEE 37 CFR 1.7)		INTERNATIONAL APPLICATION NO.				ATTORNEY'S DOCKET NUMBER			
l			•	10/534,130		PCT/AU03/01487				21415-0015US			
Ī	21.	The	following	fees are submitted:						CALCULATIONS PTO USE ONLY			
			□ a) Basic national fee			300.00						
			— в) Examination fee		\$	200.00						
				c) Search fee									
						ABOVE CALC			\$				
			sequence li	fee for specification and sting or computer progra- ditional 50 sheets of paper	m listing filed i	in an electronic mediu	\$						
ľ						R EXTRA (of each							
	SHEETS EXTRA SHEETS additional rounded to				additional 5	0 or fraction thereof		RATE					
ŀ					rounded up	p to a whole number) x \$250.00							
ŀ	-100 = /50 = Surcharge of \$130.00 for furnishing the oath o				r declaration la	ater than 30 months fr							
ļ				(37 CFR 1.492(e)).	a decimation it	ater than 50 months m	om mo	our nest	\$	130.00			
	CLAIMS			NUMBER FILED	NU	MBER EXTRA	RATE						
	Tot	al clair	ms	41- 20 =		21	х	\$50.00	-	1,050.00			
	Ind	epende	nt claims	7 - 3 =		4	х	\$200.00	\$	800.00			
-	MU	LTIPI	LE DEPEN	DENT CLAIM(S) (if app	olicable)		+	\$360.00	\$	360.00			
				TOT	TAL OF A	BOVE CALCU	LAT	IONS =	\$	2,340.00			
	\boxtimes		plicant clair	ms small entity status. So $\frac{1}{2}$.		\$	1,170.00						
	SUBTOTAL =									1,170.00			
				30.00 for furnishing the E	the earliest								
	clai	med n	riority date	(37 CFR 1 492(A)		TOTAL NATI	IONA		\$	1,230.00			
	Fee for recording the enclose assignment (37 Cl					FR 1.21(h)). The assignment must be CFR 3.28, 3.31). \$40.00 per property +							
27/200				9 10534130		TOTAL FEES ENCLOSED =							
FC:261 FC:261				65.00 OP 525.00 OP					_	OT fee) Amount to be refunded:	s		
FC:261 FC:261	400.00 RP							Ā	Amount to be charged:	s			
							1 1		_	chargeu.			
	a.			n the amount of \$ 1,23				e fees is enclos	to cover the above fees.				
	b.		Please ch	arge my Deposit Account	. No	in the amo	ount of						
			A duplica	te copy of this sheet is en	closed.						•		
	C.	\boxtimes	The Com	missioner is hereby autho	rized to charge	e any additional fees which may be required, or credit any overpayment					yment		
		To Deposit Account No. 08-1641 A dúplicate coy of this sheet is enclosed.						is enclosed.	•				
	d. Fees are to be charged to a credit card. WARNING: Information on this form may become not be included on this form. Provide credit card information and authorization on PTO-2												
	NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) filed and granted to restore the application to pending status.								or (b)) must be				
	SEND ALL CORRESPONDENCE TO:												
	HELLER EHRMAN LLP								Deems 20,7005				
	1717 Rhode Island Avenue, N.W. NAME								`	Date	-,		
		Washington, DC 20036								Date			
	Customer No.: 26633 Paul M. Booth												
						REGISTRATIC	וטא אנ	MBER					
i	40,244												

COMBINED FEE TRANSMITTAL								Complete if Known								
for FY 2005									Application Number 10/534,130							
IOR RY 2005 Effective 12/08/2004. Patent fees are subject to annual revision.									Filing Date May 6, 2005							
								First Named Inventor Ian Hector FRAZER								
PTO/SB/17 (12-04) (Revised) (For payment of 37 CFR 1.17 fees including (f), (g), (h), & (i)) Applicant claims small entity status. See 37 CFR 1.27								Examiner Name Unassigned								
TOTAL AMOUNT OF PAYMENT (\$) 1,230.00								Art Unit Unassigned Attorney Docket No. 21415-0015US								
METHOD OF PAYMENT (check one)																
157 (c) 1						` 	Other	□ Name	FEE CALCULATION (continued) 4. PETITION FEES UNDER 37 CFR 1.17 (f) Fee Paid							
Check Credit card Money Order Other None Deposit Account						Fee Code	Fee Code: 1462									
Deposit Account Number: 08-1641								5. PETI	5. PETITION FEES UNDER 37 CFR 1.17 (g) Fee I							
Deposit A	Deposit Account Name: Heller Ehrman LLP								Fee Code: 1463							
The Comm	nissioner	is author	rized to: <i>(che</i>	ck all that o	apply)				6. PETI	6. PETITION FEES UNDER 37 CFR 1.17 (h)						
☐ Charge	fee(s) in	dicated b	elow							Fee Code: 1464						
☐ Credit a	any overp	ayments	and charge ar	y deficienc	ies							DER 37 CFR			Fee Paid	
 ☑ Credit any overpayments and charge any deficiencies ☐ Charge any additional fee(s) during the pendency of this application ☐ Charge fee(s) indicated below, except for the filing fee to the deposit account 								§ 1.28(c) 1.103(b)	Fee Code: 1808 (1803 for § 1.221) Fee \$ 130 For petitions filed under: § 1.28(c)(3); § 1.41; § 1.48; § 1.52(d); § 1.53(b)(3); § 1.55; § 1.99(e); § 1.103(b); § 1.103(c); § 1.103(d); § 1.217; § 1.221; § 1.291(c)(5); § 1.497(d); § 3.81							
			FEE CAL	CULATIO	N					ER FEES	S					
1. BASIC	FILING	G, SEAR	CH, AND EX	AMINATI	ON FEE	ES			Entity Fee (\$)	Entity Fee (\$)	Fee Description Fe			Fee Paid		
	FILIN	NG FEES	SEARC	H FEES	EXA	MINA' FEES	TION		130	65	Surcharge	Surcharge - late filing fee or oath				
Applicati			, , ,	Small Entity	Entity Fee		Small Entity	Fees Paid (\$)	50	25	Surcharge - late provisional filing fee or cover sheet					
on Type	(\$)	Entity Fee (S	1 1	Fee (\$)	(\$)		Fee (\$)	1 alu (S)	130 130 Non-English specification							
Utility	300	150	500	250	200		100		2,520	2,520	For filing a request for ex parte reexamination					
Design	200	100	100	50	135		65		920*	920*	Requesting publication of SIR prior to Examiner action			or to Examiner action		
Plant	200	100	300	150	160		80		1,840*	1,840*	Requesting publication of SIR after Examiner action			er Examiner action		
Reissue	300	150	500	250	600		300		120	60	Extension for reply within first month			onth	60	
Provisional	200	100	0	0	0		0		450	225	Extension f	Extension for reply within second month				
				SUBTOTA	L (1) 4	-		=	1,020	510	Extension for reply within third month					
2. EXTRA	CLAIM	I FEES		<u>-</u>					1,590	795	Extension for reply within fourth month					
Entity Fee (\$)	Small E	ntity Fee			Fee Desc			,10.510.500.11	2,160	1,080	Extension for reply within fifth month					
50		25		im in excess s of 20 and					500	250	Filing a brief in support of an appeal					
200		100		dependent cl					790	395	Filing a su 1.129(a))	bmission after fin	al rej	ection (37 CFR		
360		180	Multiple	dependent		not alre	ady paid	i	1,510	1,510	Petition to institute a public use proceeding					
			Extra Clain	Fee from			Fee Pai	id	500	250	Petition to	revive - unavoida	ably a	bandoned application		
Total Claims	41	-20** =	21	25] = [525			1,500	750	Petition to revive - unintentionally abandoned application			y abandoned application		
Independe nt Claims	7	-3** =		100] = [400			50							
**or number Multiple De		paid, if gree	nter; For Reissue	s see below 180	7 = 1	180			1,000	180		Submission of Information Disclosure Statement Request for oral hearing				
								790	395	+- <u>·</u> -	For each additional invention to be examined (37 CFR					
								790	395	1.129(b)) Request for Continued Examination (RCE)						
3. APPLICATION SIZE FEE If the specification and drawings exceed 100 sheets of paper, the application size fee due is								900 900 Request for expedited examination (RCE)								
\$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof (round up to the a whole number). See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s)									Other fee (specify)							
Total Extra Number of Small Entity								SUBTOTAL (4+5+6+7+8) \$ 125								
Sheets	-100 = /50 = x 250 OR x 125 * Reduced by Basic Filing Fee Paid															
SUBMITT	FDBV			SUBTOTA	L (3)	\$			<u> </u>			Complete (if	appli	cable)		
Name Pawing Room Registration No.								40,244			Telephone		2-912-2000			
(Print/Type) Signature		(XII	ME				(Attorn	ney/Agent) De	Verender No. 26633							
		$\mathbf{v} \mathbf{v}$	/V V I -				!				V 0 V /	1		L		



26633

JNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS O. BOX 1450 Alexandra. Viginia 22313-1450 www.uspto.gov

FIRST NAMED APPLICANT ATTY. DOCKET NO. U.S. APPLICATION NUMBER NO 21415-0015 10/534.130

3 2005

lan Hector Frazer

INTERNATIONAL APPLICATION NO.

PCT/AU03/01487

I.A. FILING DATE

PRIORITY DATE

11/10/2003

11/08/2002

CONFIRMATION NO. 8451

371 FORMALITIES LETTER

OC000000017147714

Date Mailed: 09/30/2005

HELLER EHRMAN WHITE & MCAULIFF

1717 RHODE ISLAND AVE, NW WASHINGTON, DC 20036-3001

NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

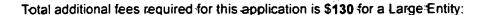
- Copy of the International Application filed on 05/06/2005
- Copy of the International Search Report filed on 05/06/2005
- Copy of IPE Report filed on 05/06/2005
- Copy of Annexes to the IPER filed on 05/06/2005
- U.S. Basic National Fees filed on 05/06/2005
- Priority Documents filed on 05/06/2005
- Specification filed on 05/06/2005
- Claims filed on 05/06/2005
- Abstracts filed on 05/06/2005
- Paper nucleotide sequence listings filed on 05/06/2005

The applicant needs to satisfy supplemental fees problems indicated below.

The following items MUST be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date.
- To avoid abandonment, a surcharge (for late submission of filling fee, search fee, examination fee or oath or-declaration) as set forth in 37 CFR 1.492(h) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.

SUMMARY OF FEES DUE:



• \$130 Surcharge.

- This application clearly fails to comply with the requirements of 37 CFR. 1.821-1.825. Applicant's attention is directed to the final rulemaking notice published at 55 FR 18230 (May 1, 1990), and 1114 OG 29 (May 15, 1990). If the effective filing date is on or after July 1, 1998, see the final rulemaking notice published at 63 FR 29620 (June 1, 1998) and 1211 OG 82 (June 23, 1998). If the effective filing date is on or after September 8, 2000, see the final rulemaking notice published in the Federal Register at 65 FR 54604 (September 8, 2000) and 1238 OG 145 (September 19, 2000). Applicant must provide an initial computer readable form (CRF) copy of the "Sequence Listing", an initial paper or compact disc-copy of the "Sequence Listing", as well as an amendment specifically directing its entry into the application. Applicant must also provide a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825 (d). If applicant desires the sequence listing in the instant application to be identical with that of another application on file in the U.S. Patent and Trademark Office, such request in accordance with 37 CFR 1.821 (e) may be submitted in lieu of a new CRF.
- A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 CFR 1.821(e). If the effective filing date is on or after September 8, 2000, see the final rulemaking notice published in the Federal Register at 65 FR 54604 (September 8, 2000) and 1238 OG 145 (September 19, 2000). Applicant must provide an initial computer readable form (CRF) copy of the "Sequence Listing" and a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d). If applicant desires the sequence listing in the instant application to be identical with that of another application on file in the U.S. Patent and Trademark Office, such request in accordance with 37 CFR 1.821(e) may be submitted in lieu of a new CRF.

Applicant is cautioned that correction of the above items may cause the specification and drawings page count to exceed 100 pages. If the specification and drawings exceed 100 pages, applicant will need to submit the required application size fee.

For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:

- For Rules Interpretation, call (571) 272-0951
- For Patentin Software Program Help, call Patent EBC at 1-866-217-9197 or directly at 703-305-3028 / 703-308-6845 between the hours of 6 a.m. and 12 midnight, Monday through Friday, EST.
- Send e-mail correspondence for Patentin Software Program Help @ ebc@uspto.gov

ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

A copy of this notice **MUST** be returned with the response.

BARBARA A CAMPBELL

Telephone: (703) 308-9140 EXT 217

PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
 10/534,130	PCT/AU03/01487	21415-0015

FORM PCT/DO/EO/905 (371 Formalities Notice)